CLAIMS

The following is a detailed listing of all claims that are, or were, in the Application.

1-11.   (Canceled)

12.   (Currently amended) A method for supplying an electronic document based on XML using a syntax defining a structure of the electronic document, the method, comprising:

supplying from a provider to a client a document including an invalid element to delete a portion of metadata fragment at the client, the portion of metadata related to a television program contained in a previously supplied document, wherein deletion of said portion of metadata fragment related to said television program is accomplished by identifying said portion of metadata fragment in the invalid element.

13.   (Currently amended) The method of claim 12, wherein the invalid element within the supplied document may contain an identifier element which identifies the previously supplied document, and wherein when the identifier element is contained in the invalid element, the entire previously supplied document is deleted at the client.

14.   (Currently amended) The method of claim 12, wherein when the invalid element contains only said portion of metadata fragment to be deleted, only the portion of metadata fragment contained in the invalid element is deleted at the client.

15.   (Previously presented) The method of claim 12, wherein the to-be-deleted metadata is identified by the invalid element.

16-19. (Canceled)

20.   (Currently amended) A method for updating metadata describing a broadcasting program, wherein the metadata is stored in a client, the method comprising:

requesting <u>by the client</u> an updated version of said metadata from a provider;

receiving <u>from the provider at the client</u> an electronic document based on XML having an invalid element which indicates that a portion of said metadata is invalid; and

deleting said portion of said metadata indicated to be invalid by the invalid element ~~from~~ <u>at</u> said client.

21.   (Canceled)

22.   (Currently amended) A method for updating an electronic document based on XML, wherein said electronic document describes metadata for a television broadcasting program that is stored in a client, the method comprising:

requesting <u>by the client</u> an updated version of said electronic document from a provider;

receiving <u>from the provider at the client</u> said updated version of said electronic document, said updated version of said electronic document having an invalid element which

indicates that at least a portion of said metadata is invalid, wherein said portion of said metadata is identified by the invalid element; and

deleting said portion of said metadata identified by the invalid element ~~from~~ at said client.

23.   (Currently amended) The method of claim 22, wherein said ~~said~~ portion of said metadata is previously received and stored in said client.

24.   (Previously presented) The method of claim 22, wherein said invalid element is defined by a syntax defining a structure of an electronic document, and wherein said syntax is XML schema.

25.   (Currently amended) The method of claim 22, wherein said deleting includes identifying said portion of said metadata identified by said invalid element ~~from~~ at said client.

26.   (Previously presented) The method of claim 22, wherein said portion of said metadata can be indicated to be invalid by an invalid attribute.

27.   (Previously presented) The method of claim 26, wherein said invalid attribute is defined by a syntax defining a structure of said electronic document, wherein said syntax is XML schema.

28.   (Currently amended) A method for updating metadata related to a broadcasting program, wherein the metadata is stored in a client, the method comprising:

requesting <u>by the client</u> an updated version for said metadata from a provider; and

deleting said metadata ~~from~~ <u>at</u> said client when said metadata is indicated to be invalid by an invalid element supplied from said provider, wherein said metadata is identified by the invalid element.

29.   (Previously presented) The method of claim 28, wherein said metadata is previously received and stored in said client.

30.   (Previously presented) The method of claim 28, wherein said invalid element is defined by a syntax defining a structure of an electronic document.

31.   (Previously presented) The method of claim 30, wherein said syntax is XML schema, and wherein the broadcasting program is a television broadcasting program.

32.   (Currently amended) The method of claim 28, wherein said deleting includes identifying said ~~said~~ metadata identified by said invalid element ~~from~~ <u>at</u> said client.

33.   (Previously presented) The method of claim 28, wherein said metadata can be indicated to be invalid by an invalid attribute.

34. (Previously presented) The method of claim 33, wherein said invalid attribute is defined by a syntax defining a structure of an electronic document.

35. (Previously presented) The method of claim 34, wherein said syntax is XML schema.

36. (Currently amended) A method for updating metadata related to a broadcasting program, wherein said metadata is stored in a client, the method comprising:

receiving <u>at a provider</u> a request <u>from said client</u> for an updated version of said metadata <s>from said client</s>; and

supplying said client with an invalid element <u>from the provider, the invalid element</u> indicating that said metadata is invalid, wherein said metadata is identified by the invalid element.

37. (Previously presented) The method of claim 36, wherein said metadata is previously supplied to said client.

38. (Previously presented) The method of claim 36, wherein said invalid element is defined by a syntax defining a structure of an electronic document.

39. (Previously presented) The method of claim 38, wherein said syntax is XML schema.

40.   (Previously presented) The method of claim 36, wherein said metadata can be indicated to be invalid by an invalid attribute.

41.   (Previously presented) The method of claim 40, wherein said invalid attribute is defined by a syntax defining a structure of an electronic document

42.   (Previously presented) The method of claim 41, wherein said syntax is XML schema.

43.   (Currently amended) A method for updating metadata related to a television broadcasting program, wherein said metadata is stored in a client, the method comprising:

identifying a predetermined version of said metadata as invalid;

receiving at a provider a request for an updated version of said metadata from said client; and

supplying said client with an invalid element from the provider, the invalid element indicating that said metadata is invalid, wherein said metadata is identified by the invalid element.

44.   (Previously presented) The method of claim 43, wherein said metadata is previously supplied to said client.

45.   (Previously presented) The method of claim 43, wherein said invalid element is defined by a syntax defining a structure of an electronic document.

46.   (Previously presented) The method of claim 45, wherein said syntax is XML schema.

47.   (Previously presented) The method of claim 43, wherein said metadata can be indicated to be invalid by an invalid attribute.

48.   (Previously presented) The method of claim 47, wherein said invalid attribute is defined by a syntax defining a structure of an electronic document.

49.   (Previously presented) The method of claim 48, wherein said syntax is XML schema.

50.   (Currently amended) A method for processing a response to a request for updating metadata related to a broadcasting program, wherein said metadata is stored in a client, the method comprising:

receiving at the client an invalid element from a provider to delete said metadata from a provider, wherein said invalid element indicates that said metadata is invalid, wherein said metadata is identified by the invalid element;

identifying said metadata identified by said invalid element at said client; and

controlling to delete said identified metadata ~~from~~ at said client.

51.   (Previously presented) The method of claim 50, wherein said metadata is previously received and stored in said client.

52.   (Previously presented) The method of claim 50, wherein said invalid element is defined by a syntax defining a structure of an electronic document.

53.   (Previously presented) The method of claim 52, wherein said syntax is XML schema, and wherein the broadcasting program is a television broadcasting program.

54.   (Previously presented) The method of claim 50, wherein said metadata can be indicated to be invalid by an invalid attribute.

55.   (Previously presented) The method of claim 54, wherein said invalid attribute is defined by a syntax defining a structure of an electronic document.

56.   (Previously presented) The method of claim 55, wherein said syntax is XML schema.

57.   (Currently amended) A method for replying to a request for updating metadata related to a broadcasting program, wherein said metadata is stored in a client, the method comprising:

supplying said client with an invalid element from a provider, the invalid element to delete said metadata ~~from~~ at the client, wherein said invalid element indicates that said metadata is invalid.

58.   (Previously presented) The method of claim 57, wherein said metadata is previously received and stored in said client.

59.   (Previously presented) The method of claim 57, wherein said invalid element is defined by a syntax defining a structure of an electronic document.

60.   (Previously presented) The method of claim 59, wherein said syntax is XML schema.

61.   (Currently amended) The method of claim 57, wherein said metadata can be ~~a~~ indicated to be invalid by an invalid attribute.

62.   (Previously presented) The method of claim 61, wherein said invalid attribute is defined by a syntax defining a structure of an electronic document.

63.   (Previously presented) The method of claim 62, wherein said syntax is XML schema.

64.   (Currently amended) A method for processing a response including an invalid element which indicates that metadata stored in a client is invalid in response to a request for updating said metadata, wherein said metadata is related to a television broadcasting program, the method comprising:

identifying said metadata by the invalid element ~~from~~ at said client; and

controlling to delete said identified metadata ~~from~~ at said client.

65.   (Currently amended) The method of claim 64, wherein said ~~fragment~~ metadata is previously received and stored in said client.

66.   (Previously presented) The method of claim 64, wherein said invalid element is defined by a syntax defining a structure of an electronic document.

67.   (Previously presented) The method of claim 66, wherein said syntax is XML schema.

68.   (Previously presented) The method of claim 64, wherein said metadata can be indicated to be invalid by an invalid attribute.

69.   (Previously presented) The method of claim 68, wherein said invalid attribute is defined by a syntax defining a structure of an electronic document.

70.   (Previously presented) The method of claim 69, wherein said syntax is XML schema.